C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.6.a   6 O'Clock (PEER 7) Critical Device & Permit Link Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.6		

Hand Processed Changes

HPC No.	Date	Page Nos.	Initials

Approved: _____*Signature on Fil**e*_____   _____
Collider-Accelerator Department Chairman   Date

V. Castillo

4.120.6.a 6 O'Clock (PEER 7) Critical Device & Permit Link Tests

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title:_____ **Checksum:** _____

Division B Software Filename and Checksum: Title:_____ **Checksum:** _____

<u>Initial testing complete</u>:

Test Team Leader's Name (Print): _____   **Life Number:** _____

Test Team Leader's Name (Sign): _____   **Date:** ____/____/_____

<u>Acceptance test procedure complete (following repairs and retesting if required)</u>:

Test Team Leader's Name (Print): _____   **Life Number:**_____

Test Team Leader's Name (Sign): _____   **Date:** ____/____/_____

<u>Test results reviewed by</u>:

Safety Section Head's Name (Print):_____   **Life Number:** _____

Safety Section Head's Name (Sign):_____   **Date:** ____/____/_____

<u>Test results accepted by Radiation Safety Committee</u>:

RSC Member's Name (Print):_____   **Life Number:** _____

 RSC Member's Name (Sign):_____   **Date:** ____/____/_____

1.1 **Setup to test the Critical Devices and Permit Link response to a loss of PASS enable.**

	SET	CD **Key switch** for	**XY ARC**
☐	**VERIFY**	CD **Key switch** is set for	**XY ARC**
	PLACE	**Peer 7** in **Mode 16**	
☐	**VERIFY**	**Peer 7** is in **Controlled Access**	**MODE 16**
☐	**VERIFY**	**MCR** sees **RHIC Inj. CD** on CD page	**DISABLED**
☐	**VERIFY**	**MCR** sees **RHIC Injn CD** **inhibit Div A** ☐ and **Div B** ☐	**ON**
☐	**VERIFY**	**MCR** sees **RHIC ring CD,** (B/S 1,2, & 3) on CD page	**DISABLED**
☐	**VERIFY**	**MCR** sees **RHIC ring inhibit Div A** ☐ and **Div B** ☐ (BS 1&2)	**ON**
☐	**VERIFY**	**MCR** sees **RHIC Reachback latch inhibit Div A** ☐ and **Div B** ☐ (BS3)	**OFF**
☐	**VERIFY**	**MCR** sees **RHIC Permit Link Div A** ☐ and **Div B** ☐	**DISABLED**
	CLOSE	**Peer 7 gates:** XGI2, YGI2, 7GS1	
	RESET	**Peer 7 gates:** 5GS1, 5EL1, 5GE1, 5ED1, 6GE1, 6GE2, 6MD1, 6ED1, 6GE3, 6EL1, 6ED2	
☐	**VERIFY**	**Peer 7 gates:** ☐ 5GS1, ☐ 5EL1, ☐ 5GE1, ☐ 5ED1, ☐ 6GE1, ☐ 6GE2, ☐ 6MD1, ☐ 6ED1, ☐ 6GE3, ☐ 6EL1, ☐ 6ED2 are	**RESET**
	SWEEP	**Peer 7 Zones:** 5Z1, 6Z1, 6Z2	
☐	**VERIFY**	**Peer 7 Zones:** ☐ 5Z1, ☐ 6Z1, ☐ 6Z2 are	**SWEPT**
	PLACE	**Peer 7** in **Mode 24**	
☐	**VERIFY**	**Peer 7** is in **No Access**	**MODE 24**
☐	**VERIFY**	**MCR** sees **RHIC Inj. CD** on CD page	**DISABLED**
☐	**VERIFY**	**MCR** sees **RHIC Injn CD** **inhibit Div A** ☐ and **Div B** ☐	**OFF**
	SET	**RHIC Primary Beamstop command**	**OUT**
☐	**VERIFY**	**RHIC Primary Beamstop command is**	**OUT**
☐	**VERIFY**	**MCR** sees **RHIC ring CD,** (B/S 1,2, & 3)	**DISABLED**
☐	**VERIFY**	**MCR** sees **RHIC ring inhibit Div A** ☐ and **Div B** ☐ (BS 1&2)	**OFF**
☐	**VERIFY**	**MCR** sees **RHIC Reachback latch inhibit Div A** ☐ and **Div B** ☐ (BS3)	**OFF**
☐	**VERIFY**	**MCR** sees **RHIC Permit Link Div A** ☐ and **Div B** ☐	**ENABLED**

☐ **Check for acceptance of Setup to test the Critical Devices and Permit Link response to a loss of PASS enable.**

1.2 **Test of Critical Devices and Permit Link response to loss of PASS enable**

☐	**VERIFY**	CD **Key switch** is set for	**XY ARC**
☐	**VERIFY**	**Peer 7** is in **No Access**	**MODE 24**
☐	**VERIFY**	**MCR** sees **RHIC Inj. CD** on CD page	**DISABLED**
☐	**VERIFY**	**MCR** sees **RHIC Injn CD** **inhibit Div A** ☐ and **Div B** ☐	**OFF**

☐ **VERIFY** **RHIC Primary Beamstop command is** **OUT**

☐ **VERIFY** **MCR** sees **RHIC ring CD,** (B/S 1,2, & 3) **DISABLED**
☐ **VERIFY** **MCR** sees **RHIC ring inhibit Div A** ☐ and **Div B** ☐ (BS 1&2) **OFF**
☐ **VERIFY** **MCR** sees **RHIC Reachback latch inhibit Div A** ☐ and **Div B** ☐ **OFF**
(BS3)

TURN OFF Any key in the **RHIC Key Tree**

☐ **VERIFY** **MCR** sees **Peer 7** go to **MODE 2**

☐ **VERIFY** **MCR** sees **RHIC Inj. CD** on CD page **DISABLED**
☐ **VERIFY** **MCR** sees **RHIC Injn CD** inhibit Div A ☐ and **Div B** ☐ **ON**

☐ **VERIFY** **MCR** sees **RHIC ring CD,** (B/S 1,2, & 3) on CD page **DISABLED**
☐ **VERIFY** **MCR** sees **RHIC ring inhibit Div A** ☐ and **Div B** ☐ (BS 1&2) **ON**
☐ **VERIFY** **MCR** sees **RHIC Reachback latch inhibit Div A** ☐ and **Div B** ☐ **OFF**
(BS3)

PLACE **Peer 7** in **Mode 8**
☐ **VERIFY** **Peer 7** is in **Restricted Access** **MODE 8**

☐ **Check for acceptance of Test of Critical Devices and Permit Link response to loss of PASS enable**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: _____/____/_____

TTL: Sign for completion of final testing: _____

Date: _____/____/_____